

AMENDMENT UNDER 37 C.F.R. § 1.111

U.S. Application No.: 09/904,558

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claim 1 (currently amended): A fine particle of aluminum hydroxide for filling in a resin, which has properties such that when 200 parts by weight of said fine particle of aluminum hydroxide is filled into 100 parts by weight of an unsaturated polyester resin having a viscosity of 10 poises at 20°C measured by a Brookfield viscometer (Rigolac 2004WM-2, produced by Showa Highpolymer Co., Ltd.), the viscosity ~~can be~~ is less than 200 poises in the measurement at 35°C by a Brookfield viscometer and that when 150 parts by weight of said fine particle of aluminum hydroxide is filled into a resin composition comprising 100 parts by weight of another unsaturated polyester resin having a viscosity of 18 poises at 25°C measured by a Brookfield viscometer (Polylite TP-123, produced by Dai Nippon Ink & Chemicals, Inc.) and 2 parts by weight of methyl ethyl ketone peroxide, the curing time until the viscosity becomes immeasurable due to the curing of resin ~~can be~~ is less than 20 minutes in the measurement at 35°C by a Brookfield viscometer.

Claim 2 (currently amended): A fine particle of aluminum hydroxide comprising a particulate aluminum hydroxide X having a BET specific surface area of 1.0 m²/g or less and a secondary particle size of 35 to 150 μm, a particulate aluminum hydroxide Y having a BET specific surface area of 1.0 m²/g or less and a secondary particle size of 10 to 35 μm and a particulate aluminum hydroxide Z having a BET specific area of 3.0 m²/g or less and a

AMENDMENT UNDER 37 C.F.R. § 1.111

U.S. Application No.: 09/904,558

secondary particle size of 0.5 to 10 μm , in a compositional mass ratio falling in the area surrounded by four points of Point α (X:Y:Z=47.5: 25.0:27.5), Point β (X:Y:Z=47.5:50.0:2.5), Point ϵ (X:Y:Z=~~82.5:0.0:17.5~~ 79.5:5:16) and Point ϕ (X:Y:Z=~~72.5:0.0:27.5~~ 67.5:5:27.5) including the lines in the ternary composition diagram shown in Fig. 1 where the entire is assumed to be 100% by mass.

Claim 3 (original): A fine particle of aluminum hydroxide comprising a particulate aluminum hydroxide X having a BET specific surface area of 1.0 m^2/g or less and a secondary particle size of 35 to 150 μm , a particulate aluminum hydroxide Y having a BET specific surface area of 1.0 m^2/g or less and a secondary particle size of 10 to 35 μm and a particulate aluminum hydroxide Z having a BET specific area of 3.0 m^2/g or less and a secondary particle size of 0.5 to 10 μm , in a compositional mass ratio falling in the area surrounded by four points of Point A (X:Y:Z=50.0:25.0:25.0), Point B (X:Y:Z=50.0:45.0:5.0), Point C (X:Y:Z=80.0:0.0:20.0) and Point D (X:Y:Z=75.0:0.0:25.0) including the lines in the ternary composition diagram shown in Fig. 2 where the entire is assumed to be 100% by mass.

Claim 4 (original): The fine particle of aluminum hydroxide as claimed in claim 2 or 3, wherein the particulate aluminum hydroxide X has a secondary particle size of 50 to 150 μm , the particulate aluminum hydroxide Y has a secondary particle size of 10 to 25 μm and the particulate aluminum hydroxide Z has a secondary particle size of 0.5 to 8 μm .

Claim 5 (original): A resin composition comprising the fine particles of aluminum hydroxide claimed in any one of claims 1 to 4.

Claim 6 (original): A resin composition comprising the fine particle of aluminum hydroxide claimed in any one of claims 1 to 4, wherein the viscosity of the resin composition

AMENDMENT UNDER 37 C.F.R. § 1.111

U.S. Application No.: 09/904,558

measured at 35°C by a Brookfield type viscometer is less than 200 poises.

Claim 7 (original): A resin composition comprising the fine particle of aluminum hydroxide claimed in any one of claims 1 to 4, which is a resin composition for forming an artificial marble.

Claim 8 (original): A resin composition comprising the fine particle of aluminum hydroxide claimed in any one of claims 1 to 4, which comprises at least one resin selected from the group consisting of an unsaturated polyester resin, an acrylic resin, a vinyl ester resin and an epoxy resin.

Claim 9 (original): A resin composition comprising the fine particle of aluminum hydroxide claimed in any one of claims 1 to 4, which is a cured resin composition.

Claim 10 (new): A fine particle of aluminum hydroxide comprising a particulate aluminum hydroxide X having a BET specific surface area of $1.0 \text{ m}^2/\text{g}$ or less and a secondary particle size of 35 to 150 μm , a particulate aluminum hydroxide Y having a BET specific surface area of $1.0 \text{ m}^2/\text{g}$ or less and a secondary particle size of 10 to 35 μm and a particulate aluminum hydroxide Z having a BET specific area of $3.0 \text{ m}^2/\text{g}$ or less and a secondary particle size of 0.5 to 10 μm , in a compositional mass ratio falling in the area surrounded by four points of Point A (X:Y:Z=50.0:25.0:25.0), Point B (X:Y:Z=50.0:45.0:5.0), Point R (X:Y:Z=76.7:5:18.3) and Point S (X:Y:Z=70:5:25) including the lines in the ternary composition diagram shown in Fig. 2 where the entire is assumed to be 100% by mass.